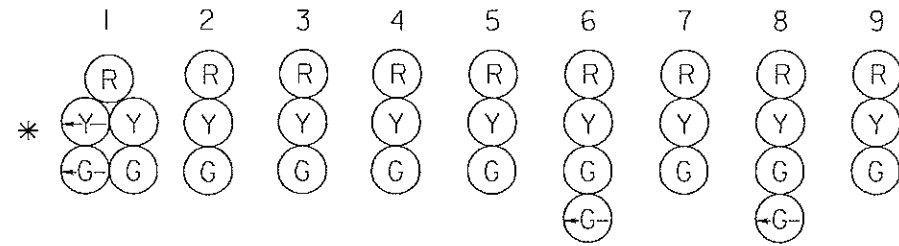


PHASE CHART



PHASE 2+6	G	G	G	G	R	R	R	R	R	←
2+6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	→
PHASE 3	R	R	R	R	G	G	G	R	R	↓
3 CHANGE	R	R	R	R	Y	Y	G	R	R	
PHASE 4	R	R	R	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	R	R	R	Y	G	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	↔

* SIGNAL HEAD 1 ARROWS ARE COVERED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: (301) 513-7311

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. JOE GECKLE
UTILITY ENGINEER
PHONE: (301) 513-7350

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS:
BALTIMORE GAS AND ELECTRIC COMPANY
MR. JOSEPH G. BUNCH
SUPERVISOR
INDUSTRIAL/COMMERCIAL SERVICES
NEW BUSINESS CONSTRUCTION
PHONE: (410) 859-9030

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 197 AND B/W PARKWAY NORTHBOUND RAMP (RAMP C-1) IN PRINCE GEORGE'S COUNTY. MD 197 IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

DURING TRAFFIC CONTROL STAGE 4 THE INTERSECTION WILL OPERATE IN A NEMA (4) FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH SOUTHBOUND AND NORTHBOUND MARYLAND 197 APPROACHES OPERATING CONCURRENTLY. THE RAMP FROM B/W PARKWAY AND SNOWDON ROAD APPROACHES WILL OPERATE AS SPLIT PHASES.

MAINTENANCE OF TRAFFIC

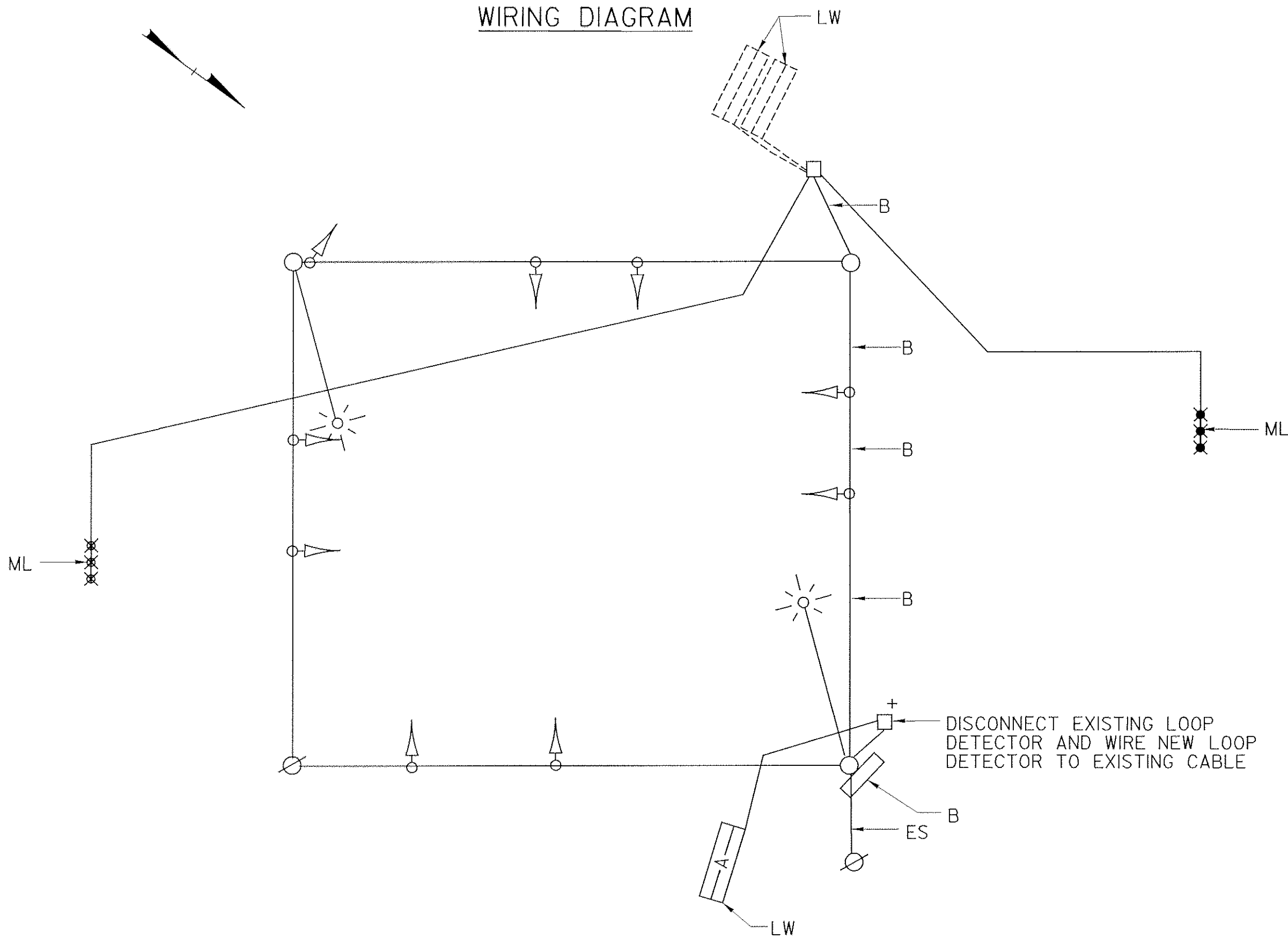
THE TRAFFIC CONTROL NUMBERS SHALL BE REFERENCED FOR THE PROJECT

STANDARD NO. MD-105.00
STANDARD NO. MD-105.01
STANDARD NO. MD-105.02
STANDARD NO. MD-105.101 (FLAGGING OPERATION)
STANDARD NO. MD-105.103 (INTERSECTION FLAGGING OPERATION)

STANDARD NO. MD-105.105 (SHOULDER WORK)
STANDARD NO. MD-105.107 (LANE SHIFT)
STANDARD NO. MD-105.109 (LANE SHIFT)

NOTE: STANDARDS TO BE MODIFIED BY REPLACING W21-5 SIGN WITH A W29-1 SIGN (ROAD WORK AHEAD).

WIRING DIAGRAM



WIRING KEY

- A - 2 - CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED,) SPLICE
- B - MICRO-LOOP PROBE SET
- LW - LOOP WIRE (NO. 14 A.W.G.)
- ES - EXISTING SERVICE
- + - 3/4" x 10' GROUND ROD
- ML - MICRO-LOOP PROBE SET

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. SECTION	CATEGORY CODE No.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
805	805160	5 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810	862101	560 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
815	862102	510 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
810	810011	1 EACH	FURNISH AND INSTALL LOOP DETECTOR SPLICE TO EXISTING 2-CONDUCTOR (ALUMIUM SHIELDED) CABLE
—	114245	38 LF	FURNISH AND INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
—	100000	25 LF	FURNISH AND INSTALL 5" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
810	800000	1 EACH	MICRO LOOP PROBE SET WITH 1,000 FT. LEAD-IN.
813	800000	9 SF	INSTALL OVERHEAD SIGN.
805	805011	15 LF	FURNISH AND INSTALL 1" GALVANIZED ELECTRICAL CONDUIT FOR DETECTOR SLEEVE.

CONSTRUCTION DETAILS

STAGE 4

- A. INSTALL 1" LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- B. NOT USED.
- C. INSTALL 6' X 30' LOOP DETECTOR, ENCASED IN 1/4 IN. FLEXIBLE TUBING (3.6.3 TURNS). QUADRUPOLE TYPE.
- D. INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
- E. NOT USED.
- F. SPLICE LOOP DETECTOR TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE.
- G. NOT USED.
- H. INSTALL 1" GALVANIZED ELECTRICAL CONDUIT FOR DETECTOR SLEEVE.
- I. INSTALL MICRO-LOOP PROBE SET WITH 1,000 FT. LEAD-IN.
- J. FURNISH AND INSTALL 5" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE.

ADDENDUM

STAGE 4
TEMPORARY TRAFFIC SIGNALS

SS-21

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 16019711.69

DRAWN BY: SMH
DES. BY: SMH/DLA
CHK. BY: BJH

MD 197 AT SNOWDEN RD/RAMP C-1
SIGNAL PLAN
COUNTY: PRINCE GEORGE'S

DATE: FEBRUARY, 1999 F.A.P. NO. SEE TITLE SHEET
SCALE: N/A S.H.A. NO. N/A

TS/STD. NO.: SHEET NO.
3582B-X4-G11 126K OF 367

RUMMEL, KLEPPER
& KAHL, LLP
CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217

TEL: (410) 728-2900 FAX: (410) 383-3270

REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER - TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

February, 1999
Reconstruct Due To New Geometrics. SHA No: N/A